1. Record Nr. UNINA990006473320403321

Autore	Cornevin, Marianne <1918-2010>
Titolo	L'apartheid : violenza e falsificazione storica / Marianne Cornevin
Pubbl/distr/stampa	Milano : Marzorati, 1983
Descrizione fisica	213 p. 19 cm
Collana	Clio. Il mondo contemporaneo. Problemi internazionali dal dopoguerra ad oggi ; 4
Disciplina	968
Locazione	FSPBC
Collocazione	COLLEZ. 987 (4)
Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
Livello bibliografico	Monografia

2. Record Nr. UNISA990003565340203316

Autore	LICHTENBERG, Georg Christoph
Titolo	Osservazioni e massime / Lichtenberg ; traduzione dal tedesco e prefazione di Enrico Burich
Pubbl/distr/stampa	Lanciano : Carabba, 1922
Descrizione fisica	126 p. ; 20 cm
Collana	Cultura dell'anima ; 46
Disciplina	838.6
Collocazione	XV.2.A. 202 58
Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
Livello bibliografico	Monografia

3. Record Nr. UNINA9910830450603321

Autore	Krantz William B. <1939->
Titolo	Scaling analysis in modeling transport and reaction processes : a systematic approach to model building and the art of approximation / / William B. Krantz
Pubbl/distr/stampa	[New York] : , : AIChE Hoboken, N.J. : , : Wiley-Interscience, , [2007]
ISBN	1-280-91685-0 9786610916856 0-470-12193-9 0-470-12192-0
Descrizione fisica	1 online resource (547pages)
Disciplina	511.4 530.13/8
Soggetti	Transport theory - Mathematics Chemical reactions - Mathematical models Scaling laws (Statistical physics) Approximation theory Measurement
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	SCALING ANALYSIS IN MODELING TRANSPORT AND REACTION PROCESSES; CONTENTS; Preface; Acknowledgments; 1 Introduction; 1.1 Motivation for Using Scaling Analysis; 1.2 Organization of the Book; 2 Systematic Method for Scaling Analysis; 2.1 Introduction; 2.2 Mathematical Basis for Scaling Analysis; 2.3 Order-of-One Scaling Analysis; 2.4 Scaling Alternative for Dimensional Analysis; 2.5 Summary; 3 Applications in Fluid Dynamics; 3.1 Introduction; 3.2 Fully Developed Laminar Flow; 3.3 Creeping- and Lubrication-Flow Approximations; 3.4 Boundary-Layer-Flow Approximation 3.5 Quasi-Steady-State-Flow Approximation3.6 Flows with End and Sidewall Effects; 3.7 Free Surface Flow; 3.8 Porous Media Flow; 3.9 Compressible Fluid Flow; 3.10 Dimensional Analysis Correlation for the

Terminal Velocity; 3.11 Summary; 3.E Example Problems; 3.P Practice Problems; 4 Applications in Heat Transfer; 4.1 Introduction; 4.2 Steady-State Heat Transfer with End Effects; 4.3 Film and Penetration Theory Approximations; 4.4 Small Biot Number Approximation; 4.5 Small Peclet Number Approximation; 4.6 Boundary-Layer or Large Peclet Number Approximation; 4.7 Heat Transfer with Phase Change
4.8 Temperature-Dependent Physical Properties4.9 Thermally Driven Free Convection: Boussinesq Approximation; 4.10 Dimensional Analysis Correlation for Cooking a Turkey; 4.11 Summary; 4.E Example Problems; 4.P Practice Problems; 5 Applications in Mass Transfer; 5.1 Introduction; 5.2 Film Theory Approximation; 5.3 Penetration Theory Approximation; 5.4 Small Peclet Number Approximation; 5.5 Small Damkohler Number Approximation; 5.6 Large Peclet Number Approximation; 5.7 Quasi-Steady-State Approximation; 5.8 Membrane Permeation with Nonconstant Diffusivity
5.9 Solutally Driven Free Convection Due to Evapotranspiration5.10 Dimensional Analysis for a Membrane-Lung Oxygenator; 5.11 Summary; 5.E Example Problems; 5.P Practice Problems; 6 Applications in Mass Transfer with Chemical Reaction; 6.1 Introduction; 6.2 Concept of the Microscale Element; 6.3 Scaling the Microscale Element; 6.4 Slow Reaction Regime; 6.5 Intermediate Reaction Regime; 6.6 Fast Reaction Regime; 6.7 Instantaneous Reaction Regime; 6.8 Scaling the Macroscale Element; 6.9 Kinetic Domain of the Slow Reaction Regime; 6.10 Diffusional Domain of the Slow Reaction Regime
6.11 Implications of Scaling Analysis for Reactor Design6.12 Mass-Transfer Coefficients for Reacting Systems; 6.13 Design of a Continuous Stirred Tank Reactor; 6.14 Design of a Packed Column Absorber; 6.15 Summary; 6.P Practice Problems; 7 Applications in Process Design; 7.1 Introduction; 7.2 Design of a Membrane Lung Oxygenator; 7.3 Pulsed Single-Bed Pressure-Swing Adsorption; 7.4 Thermally Induced Phase-Separation Process; 7.5 Fluid-Wall Aerosol Flow Reactor for Hydrogen Production; 7.6 Summary; 7.P Practice Problems; Appendix A Sign Convention for the Force on a Fluid Particle Appendix B Generalized Form of the Transport Equations

Sommario/riassunto

This book is unique as the first effort to expound on the subject of systematic scaling analysis. Not written for a specific discipline, the book targets any reader interested in transport phenomena and reaction processes. The book is logically divided into chapters on the use of systematic scaling analysis in fluid dynamics, heat transfer, mass transfer, and reaction processes. An integrating chapter is included that considers more complex problems involving combined transport phenomena. Each chapter includes several problems that are explained in considerable detail. These are followed by se